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Effects of Tobacco Smoke Inhalation on Lung Surfactant and Alveolar Macrophages.

The research into the inhibition effects of gaseous components of cigarette smoke on the phagocytic activity is being continued. Smoke effects are being evaluated by the measurement of phagocytosis, cell adhesion to glass, cytochrome redox and other appropriate indicators of the aerobic metabolic state. The effects of catecholamines upon the phagocytic capacity of macrophages demonstrated by spectral shifts of the cytochromes, inhibition of mobility, etc., are also under investigation. Initial studies of relationship of smoke to impairment of physiological function are underway and radio tracer tagged particles of 0.5μ to 1.2μ size are being developed to expedite the assay of particle incorporation (phagocytosis).

Activation Date: July 1, 1972

Current Contract Level: $73,272.

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Source: https://www.industrydocuments.ucsf.edu/docs/qhxl0000